DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2017-04-25-04** **Date: 26-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division
Agency	:	Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-04-17
Sample ID No	:	2017-04-25-04/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	25-04-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.5%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.2%	
Combined Flakiness and Elongation Index for WMM	23.7%	

Note:-
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Prepared By:
Harshitha

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AEE (VRP) SD

End of Report

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2017-04-25-04** **Date: 26-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division
Agency	:	Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-04-17
Sample ID No	:	2017-04-25-04/03
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	25-04-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.3%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	22.8%	

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Quality Manager

Prepared By:
Harshitha

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2017-04-27-04** **Date: 28-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division
Agency	:	Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-04-17
Sample ID No	:	2017-04-27-04/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	25-04-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.1%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.0%	
Combined Flakiness and Elongation Index for WMM	25.1%	

Note:-
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TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-04-29-02** **Date: 03-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division
Project Name	:	Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer's Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-04-17
Sample ID No	:	2017-04-29-02/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	29-04-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	92	80 to 100
2	Softening Point, °C	48.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	232.5	Min. 220°C
	Fire point, °C	251.5	

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TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-29-02** **Date: 03-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division
Agency	:	Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-17
Sample ID No	:	2017-04-29-02/01
Type of Mix	:	SDBC-Plant (Semi Dense Bituminous Concrete)
Date of test	:	29-05-17
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100	100
9.5	332	332	6.64	93.4	90-100
4.75	2287	2619	52.38	47.6	35-51
2.36	1005	3624	72.48	27.5	24-39
1.18	365	3989	79.78	20.2	15-30
0.3	319	4308	86.16	13.8	9-19
0.075	458	4766	95.32	4.7	3-8
PAN	234	5000	100.00	0.0	0

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Prepared By:
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Date.....Authorized Signatory
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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-04-29-02** **Date: 03-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division
Agency	:	Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-17
Sample ID No	:	2017-04-29-02/01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	29-05-17

Type of Binder	:	80/100
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.5	Minimum Retained Coating 95%
2	99.0	1.0		
3	98.5	1.5		

Note:
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Authorized Signatory
Quality Manager

****End of Report****

TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-04-29-02** **Date: 03-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division
Agency	:	Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-17
Sample ID No	:	2017-04-29-02/01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	29-05-17

The results of the tests conducted on the Semi Dense Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-16
1	Marshal Stability at 60°C, KN	9.98	10.06	8.2KN(min)
2	Marshal flow at 60°C, mm	3.66	3.72	2-4
3	Percent air Voids	4.79	4.28	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.21	14.35	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.98	71.5	65-75
6	Density, g/cc	2.25	2.24	–

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Quality Manager

SPECIFIC GRAVITY AND WATER ABSORPTION TEST
IS:2386 (Part III)

Lab ID : **CP-RW-2017-04-29-02** **Date: 03-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division

Project Name : Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.

Customer Reference : BBMP/EE/BTP/WO/223/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-05-17

Sample ID No : 2017-04-29-02/01

Type of Mix : Coarse Aggregate for SDBC (Semi Dense Bituminous concrete)

Date of test : 29-05-17

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
1	Weight of Wet aggregates + Basket suspended in water	A1	grams	2255	2241	
2	Weight of Empty Basket suspended in water	A2	grams	791	791	
3	Weight of Aggregates in water	A=A1-A2	grams	1464	1450	
4	Weight of Saturated Surface Dry aggregate	B	grams	2376	2345	
5	Weight of oven dried aggregate	C	grams	2372	2340	
6	Specific gravity	C/(B-A)		2.60	2.61	2.61
7	Apparent Specific gravity	C/(C-A)		2.61	2.63	2.62
8	Water absorption	100*(B-C) /C	Percent	0.17	0.21	0.19

Note:-

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Prepared By:
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TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID : **CP-RW-2017-04-29-02** **Date: 03-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of

Agency : Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.

Customer Reference : BBMP/EE/BTP/WO/223/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-05-17

Sample ID No : 2017-04-29-02/01

Type of Mix : Coarse Aggregate for SDBC (Semi Dense Bituminous Concrete)

Date of test : 29-05-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	308.6	308.1
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	69.3	70.7
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	238.9	236.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.6
5	Aggregate impct value	(B/A)*100	22.46	22.95
6	Aggregate impct value (Mean of two tests)		22.70	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2017-04-29-02** **Date: 03-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division
Agency	:	Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-17
Sample ID No	:	2017-04-29-02/01
Type of Mix	:	Coarse Aggregate for SDBC (Semi Dense Bituminous Concrete)
Date of test	:	29-05-17

Result:

Flakiness Index	8.9%
Elongation Index	11.7%
Combined Flakiness & Elongation Index for SDBC	20.6%

Comments:

Maximum allowable Flakiness & Elongation Index For SDBC is 30 %

Note:-

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TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID : **CP-RW-2017-05-04-01** **Date: 06-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.

Customer Reference : BBMP/EE/BTP/WO/223/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-05-17

Sample ID No : 2017-05-04-01/01

Type of Mix : SDBC (Semi Dense Bituminous Concrete)

Date of test : 04-05-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	475	474
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.00	5.20
4	Average percentage	%	5.10	

Prepared By:
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Lab ID : **CP-RW-2017-05-04-01** **Date: 06-05-17**

Sample ID No : **2017-05-04-01/01**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 475

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	29	29	6.1	93.9	90-100
4.75	238	267	56.2	43.8	35-51
2.36	85	352	74.1	25.9	24-39
1.18	42	394	82.9	17.1	15-30
0.3	27	421	88.6	11.4	9-19
0.075	32	453	95.4	4.6	3-8

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 474

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	26	26	5.5	94.5	90-100
4.75	225	251	53.0	47.0	35-51
2.36	82	333	70.3	29.7	24-39
1.18	46	379	80.0	20.0	15-30
0.3	54	433	91.4	8.6	9-19
0.075	22	455	96.0	4.0	3-8

Note:-
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TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-RW-2017-05-04-01** **Date: 06-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division.
Agency	:	Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-05-17
Sample ID No	:	2017-05-04-01/02
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	04-05-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	501	500
2	Weight of the sample After extraction	B	474	475
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.39	5.00
4	Average percentage	%	5.19	

Prepared By:
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Lab ID : **CP-RW-2017-05-04-01** **Date: 06-05-17**

Sample ID No : **2017-05-04-01/02**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 474

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	19	19	4.0	96.0	90-100
4.75	250	269	56.8	43.2	35-51
2.36	76	345	72.8	27.2	24-39
1.18	33	378	79.7	20.3	15-30
0.3	52	430	90.7	9.3	9-19
0.075	17	447	94.3	5.7	3-8

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 475

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	27	27	5.7	94.3	90-100
4.75	225	252	53.1	46.9	35-51
2.36	81	333	70.1	29.9	24-39
1.18	45	378	79.6	20.4	15-30
0.3	53	431	90.7	9.3	9-19
0.075	21	452	95.2	4.8	3-8

Note:-
The results pertain to the samples received and tested.
All Information Furnished by the customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

AEE (KBP) SD